

Portable Fugitive Emission Detection System

DS 2000PS Series

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**Subject to Change
without notice**

**DELACOM DETECTION
SYSTEMS**

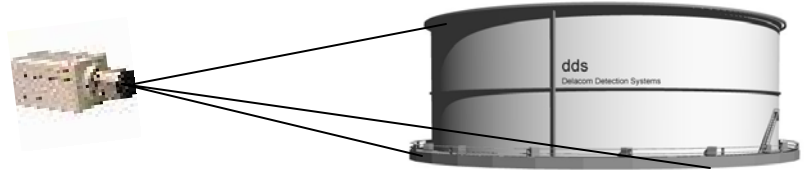
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DDS emission detection systems detect fugitive emissions in storage, transport facilities, processing plants and industries involved with hazardous, explosive or environmentally sensitive materials. This system is a sub set of the DDS patent pending detection technology applied as a fixed explosive warning system for hydrocarbon storage and transport facilities.

The portable system provides the ability to inspect and record the inspection process of repaired or newly installed facilities.

System packaged in a ruggedized, weatherproof case:

Optical Sensor	Battery Chargers
Tablet Computer	Tripod
Quick Start Manual	Spare Battery (Option)

System Specifications

Integrated Vapor Emission Detection System
Audible and Visual alarm upon vapor detection
Record Options: Always or On Event
Video exportable as avi file
Compression storage and search capability
Touch Controls
30 meter range, 20° (nominal) Viewing Angle
6 Hour Batteries

DS 2000PS Series Component Specifications



Optical Sensor

Range	30 meters	Operating Temp Range	-40 to + 80°C
Field of View	26°x 20°	Storage Temp Range	-50 to + 80°C
Zoom	2x digital	Shock	70 g shock pulse, 11ms half-wave profile
Power	Rechargeable Lithium Ion battery – 6 hour duration	Vibration	4.3 g ms random vibration for 8 hours (3 axis)



Ruggedized Tablet Computer

Physical and Environmental Characteristics

Dimensions:	10.6" W x 7.2" H x 1.65" D (270 mm W x 183 mm H x 42 mm D)
Display:	Code 39, Code 128, Codabar, UPS, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock
Weight:	4.60 lb. (2.08 kg) – with high capacity battery
Sealing Dust:	IP 65; Rain: MIL-STD 810F, 506.4 II 4" per hour, 40psi for 10 minutes on all axes
Drop / Shock:	Lightweight magnesium alloy for strength MIL-STD 810F, 506.5 IV: 26 repeated drops to plywood over concrete from 36 inches
Operating Temp:	-4° F to +122° F (-20° C to +50° C)
Storage Temp:	-22° F to +140° F (-30° C to +60° C)
Humidity:	5% - 95% non-condensing

Wireless & GPS Network Characteristics:

Wireless	802.11a/g (11/54 Mbps) 2.4 GHz, Bluetooth (Class II, optional)
WAN - Optional	EV-DO, EDGE / GPRS / GSM through PCMCIA slot Protective antenna cover maintains sealing, rugged

Performance Characteristics

Processor:	Intel® Core Duo ULV U2500, 1.2 GHz 2MB L2 Cache, FSB 533 MHz
System Memory:	2GB, 4GB DDR2 RAM
Hard Drive:	Shock Mounted, 2.5 inch Hard Disk, 80GB
Operating System:	Windows® XP Tablet PC Edition®
Display:	800 (W) x 600 (H) (SVGA) Color TFT Digitizer & Passive Touch Screen Standard xView Sunlight Readable Option, 300nit
Keyboard:	Full backlit numeric keypad, programmable keys Enter, Up / Down / Left / Right Navigation, Escape, Security, Rotate Display, Function Key, Sus- pend/Power
System Expansion:	Compact Flash Type II Slot PC Card Slot Type II-Card Bus 2.1 PCI Express Slot (internal) RJ-11 integrated fax/modem RJ-45 10BaseT 10/100/1000 Gigabit Ethernet (2) USB 2.0 Mini-USB Surface contact docking connector Serial Port (9 pin D-SUB)
Battery System:	High capacity 6600 mAh Li-ION battery pack External belt mounted battery (option)

DS 2000PS Series Component Specifications



Case

TriPod

Test	Description	Features
Drop Test	A series of 26 drops, one on each corner, edge, face, from 19" to 30", depending on the gross weight of the case with loads of 15 lbs to 70 lbs (depending on case size).	<ul style="list-style-type: none"> • Lightweight carbon fiber constructed legs • Designed for the latest DSLR cameras and camcorders • Removable 3-way panhead with quick release plate with indexing pin • Reversible 1/4"-20 / 3/8" threaded screw • Built-in bubble level Neoprene leg wraps • 3-position leg angle locks for low angle photography • Second short center column for low level photography • Retractable leg spikes • Limited lifetime warranty
Falling Dart Impact	A dart weighing 13.22 lbs with a 1.25" hemispherical end was dropped on each case from 19.68"	
Vibration (loose cargo)	Each case was vibrated for 20 minutes per axis. 1-inch peak to peak at approximately 4.50 Hz.	
Vibration sweep)	"Vibration Test for Category I containers - Vibration tests shall be conducted on Category I containers in accordance with ASTM Designation D-999, Procedure B, within the range of 5 to 50 cycles per second for a period of not less than two (2) hours."	
Simulated Rainfall	Four inches of rain per hour for 20 minutes each side. This was followed by a 4-hour test at 4" per hour on the top, with the case initially heated to 18°F higher than the water temp.	
Immersion	A 1 meter (3.281 feet) immersion for 1-hour, with the case initially heated to 40°F higher than the water temperature.	

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